Date: Sat, 20 Nov 93 11:58:29 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1368
To: Info-Hams

Info-Hams Digest  Sat, 20 Nov 93  Volume 93 : Issue 1368

Today's Topics:


Adams-Phillips code & "LID"
CENSORSHIP WARNING
CW QSO's, New hams who need practice read this!
Daily Summary of Solar Geophysical Activity for 16 November
FM SUB CARRIER ADAPTORS
Gary?s comment
License Datapoints
Phillips-Adams Code [long]
What do I do now/


Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party.  Your mileage may vary.  So there.
---

Date: Fri, 19 Nov 1993 22:56:27 GMT
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!howland.reston.ans.net!
europa.eng.gtefsd.com!library.ucla.edu!csulb.edu!paris.ics.uci.edu!
news.service.uci.edu!ttinews!avatar!sorgatz@decwrl.dec.
Subject: Adams-Phillips code & "LID"
To: info-hams@ucsd.edu

In article <CGrAD5.AnI@odin.corp.sgi.com> adams@chuck.dallas.sgi.com (Chuck Adams)
writes:
>Scott Rosenfeld, NF3I, wondered where the term LID came from.
>I didn't make it up and neither did Phillips.
>
>When Morse first started the telegraphic service, the system
>consisted of wooden clock gears, etc. and a pencil was drawn

>across a moving roll of paper to receive info.  An assistant
>one day noted that he could copy the letters, etc. from the
>sound.  This lead to a sounder system using electromagnets
>etc.
>
>My guess would be, during the early days of telegraphy, a
>poor operator or new operator was probably transmitting
>messages across the network and somebody probably made an
>off the cuff remark "that sounds terrible, like striking
>a lid on a jar".  And somebody else probably said "You're
>right!  It does sound like a LID."  Thus the origin of the
>term LID.  Original from the mind of K5FO.  :-)
>
>Sounded good to me.
>
>At 80 wpm it does sound like rain on a tin roof. - W5GOS
>
>
>--
>SIG
>------cut here----------
>Chuck Adams, K5FO - CP60
>adams@sgi.com
>QRP ARCI Awards Chairman

 Nope. Close, but actually the term 'lid' described the younger operator who would attach a jar lid to the sounder mechanism to magnify it's output. The older, more experienced ops didn't need the jar lid diaphram to hear (then) Land Line CW, made the term a derrogatory one. FROM: "EDISON, deaf genius" Prent-Hall Pub.

 As Thomas Alva became more and more deaf, he ended up copying by either touching the sounder unit or using a flashing light system towards the end of his life...

-Avatar-> (aka: Erik K. Sorgatz) KB6LUY          +----------------------------+
TTI(es@soldev.tti.com)or: sorgatz@avatar.tti.com *Government produces NOTHING!*
3100 Ocean Park Blvd. Santa Monica, CA  90405    +----------------------------+
(OPINIONS EXPRESSED DO NOT REFLECT THE VIEWS OF CITICORP OR ITS MANAGEMENT!)

---

Date: 17 Nov 93 10:05:36 EST
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!europa.eng.gtefsd.com!
news.umbc.edu!eff!news.kei.com!world!ksr!jfw@network.ucsd.edu
Subject: CENSORSHIP WARNING

To: info-hams@ucsd.edu

jherman@uhunix3.uhcc.Hawaii.Edu (Jeff Herman) writes:
>So, my friends, beware! There is no absolute freedom of speech on
>.misc and .policy.

That's right; welcome to USENET.  You spend other people's money transmitting your articles, you need to play nice.  That's awfully discriminatory against sociopaths, I know, but hey life just ain't fair.

Followups to news.newusers.questions in case someone has trouble coping with this idea and needs it explained.

---

Date: Wed, 17 Nov 1993 15:02:20 GMT
From: nntp.crl.com!boo!seeker!jeffj@decwrl.dec.com
Subject: CW QSO's, New hams who need practice read this!
To: info-hams@ucsd.edu

After reading a bit I realized that hams who just passed their 5 wpm code test are nervous about making their first CW contacts on the air (I was!).  If you just passed, working on upgrading or need your first CW contact please send me some email and I'll be more then happy to work you. It will be nice and easy with no pressure on you to be perfect. I will work with you and resend as many times as you need until you get it. So if you have been scared to get on the air using CW this is your chance! Let me know what time and frequency and let's do it! 73!

Jeff Jones

--
 Jeff Jones  AB6MB         |  Stop the North American Free Trade Agreement!
 UUCP   uunet!seeker!jeffj |  Canada lost over 300,000 jobs to the USA.
 Infolinc BBS 510-778-5929 |  Guess how many we'll lose to Mexico?

---

Date: Tue, 16 Nov 1993 21:06:22 MST
From: nntp.ucsb.edu!library.ucla.edu!agate!howland.reston.ans.net!math.ohio-state.edu!cyber2.cyberstore.ca!nntp.cs.ubc.ca!alberta!nebulus!ve6mgs!usenet@network.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 16 November
To: info-hams@ucsd.edu

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

16 NOVEMBER, 1993

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 16 NOVEMBER, 1993
---

NOTE: The background x-ray flux has been estimated. Loss of x-ray
data during the day prevented the computation of this value.

```
!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 320, 11/16/93
10.7 FLUX=100.4  90-AVG=093        SSN=045      BKI=2232 2212  BAI=007
BGND-XRAY=B1.1     FLU1=*.*E+**  FLU10=*.*E+**  PKI=3233 2212  PAI=008
  BOU-DEV=017,013,028,018,010,010,006,013   DEV-AVG=014 NT     SWF=00:000
 XRAY-MAX= C1.0   @ 0913UT    XRAY-MIN= A9.4   @ 1556UT   XRAY-AVG= B1.6
NEUTN-MAX= +003%  @ 1655UT   NEUTN-MIN= -002%  @ 1900UT  NEUTN-AVG= +0.1%
  PCA-MAX= +0.0DB @ 2315UT     PCA-MIN= -0.3DB @ 2210UT    PCA-AVG= -0.0DB
BOUTF-MAX=55361NT @ 2358UT   BOUTF-MIN=55343NT @ 2022UT  BOUTF-AVG=55355NT
GOES7-MAX=P:+000NT@ 0000UT   GOES7-MIN=N:+000NT@ 0000UT  G7-AVG=+050,+000,+000
GOES6-MAX=P:+102NT@ 1613UT   GOES6-MIN=N:-065NT@ 0933UT  G6-AVG=+072,+021,-043
 FLUXFCST=STD:100,100,100;SESC:100,100,100 BAI/PAI-FCST=015,020,015/015,020,015
    KFCST=1111 1111 3334 4333  27DAY-AP=005,007   27DAY-KP=2121 1222 1223 3220
 WARNINGS=*SWF
   ALERTS=
!!END-DATA!!
```

NOTE: The Effective Sunspot Number for 15 NOV 93 was 45.0.
The Full Kp Indices for 15 NOV 93 are: 3o 3o 2- 2- 2- 1+ 2+ 3o

SYNOPSIS OF ACTIVITY
---

Solar activity was low. Region 7618 (N08E22) has continued to slowly decrease in activity yet increase in white light appearance. The remainder of the disk is spotless.

Solar activity forecast: solar activity is expected to be low to moderate. Region 7618 is still expected to produce at least C-class activity with a chance for M-class activity.

STD: The latest Yohkoh x-ray image has been appended to this report. The image was taken at approximately 03:00 UTC on 16 November and clearly shows the finger-extension of the

southern polar coronal hole which is expected to prove at least mildly geoeffective on 18 November.

The geomagnetic field has been at quiet to unsettled levels at middle latitudes for the past 24 hours. High latitudes have experienced some isolated active periods.

Geophysical activity forecast: the geomagnetic field is expected to be mostly unsettled on day one, active on day two due to a favorably located coronal hole, and back to mostly unsettled on day three.

Event probabilities 17 nov-19 nov

| | |
|---|---|
| Class M | 50/50/50 |
| Class X | 05/05/05 |
| Proton | 05/05/05 |
| PCAF | Green |

Geomagnetic activity probabilities 17 nov-19 nov

| | |
|---|---|
| A. Middle Latitudes | |
| Active | 40/35/35 |
| Minor Storm | 30/25/25 |
| Major-Severe Storm | 10/10/10 |
| B. High Latitudes | |
| Active | 35/35/30 |
| Minor Storm | 35/30/30 |
| Major-Severe Storm | 15/15/10 |

HF propagation conditions continued normal over all regions. Conditions are expected to become mildly degraded over transauroral and transpolar paths on 18 October due to a well-placed coronal hole. However, the disturbance should be fairly short-lived (about 24 hours) and therefore is not expected to produce any lasting impacts. Recovery should be fairly rapid and near-normal propagation should return on 19 October. Daylit paths are still at risk for periods of brief SWF activity due to minor solar flares.

## COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 16/2400Z NOVEMBER

| NMBR | LOCATION | LO | AREA | Z | LL | NN | MAG TYPE |
|---|---|---|---|---|---|---|---|

7618  N08E22  338  0580 DKI  09  035 BETA
7616  N11W46  046                   PLAGE
7617  S15W82  082                   PLAGE
7619  N10W45  045                   PLAGE
REGIONS DUE TO RETURN 17 NOVEMBER TO 19 NOVEMBER
NMBR LAT    LO
NONE

LISTING OF SOLAR ENERGETIC EVENTS FOR 16 NOVEMBER, 1993
---
BEGIN  MAX  END  RGN   LOC   XRAY  OP 245MHZ 10CM   SWEEP SWF
     NO EVENTS OBSERVED

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 16 NOVEMBER, 1993
---
               ISOLATED HOLES AND POLAR EXTENSIONS
      EAST   SOUTH  WEST   NORTH  CAR  TYPE  POL  AREA   OBSN
48   S35W03 S42W13 S10W33 S03W29  023  ISO   NEG   015 10830A
49   N30E67 N16E47 N25E39 N35E57  313  ISO   POS   007 10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY
---

 Date   Begin  Max   End  Xray  Op Region  Locn    2695 MHz  8800 MHz  15.4 GHz
------  ----  ----  ----  ----  -- ------ ------  --------- --------- ---------
15 Nov: 0804  0806  0816        SF  7618  N09E45
        1525  1528  1534  B2.9
        1628  1630  1636        SF  7618  N09E40
        1702  1709  1718  B6.9
        1917  1925  1945  B8.2  SF  7618  N08E40
        2207  2210  2214  B2.9
        2325  2332  2346  B3.0

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY
---

                C   M   X     S   1   2   3   4   Total   (%)
               --  --  --    --  --  --  --  --    ---  ------
  Region 7618:  0   0   0     3   0   0   0   0    003  (42.9)
Uncorrellated: 0   0   0     0   0   0   0   0    004  (57.1)

 Total Events: 007 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY
---

| Date | Begin | Max | End | Xray | Op | Region | Locn | Sweeps/Optical Observations |
|---|---|---|---|---|---|---|---|---|
| NO EVENTS OBSERVED. | | | | | | | | |

NOTES:

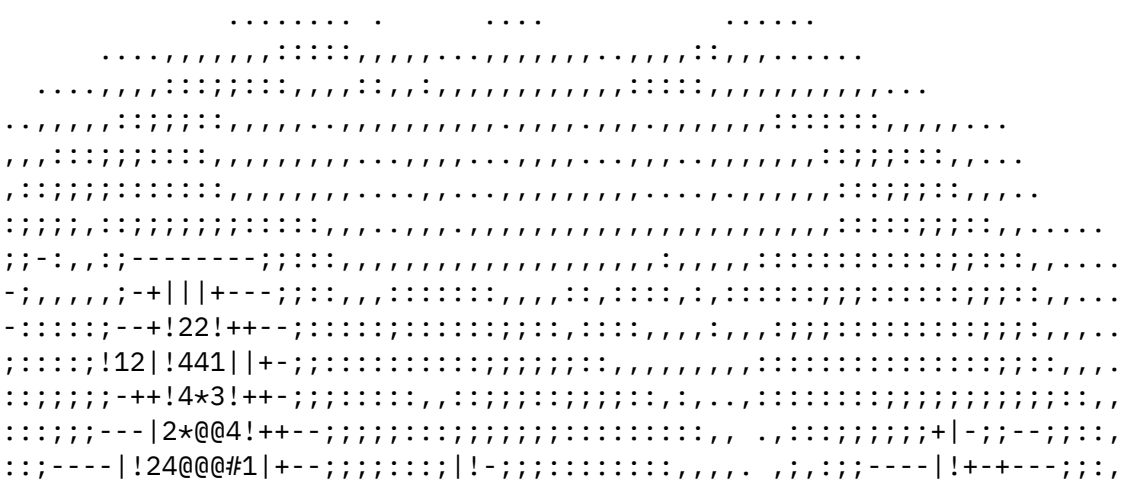
All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

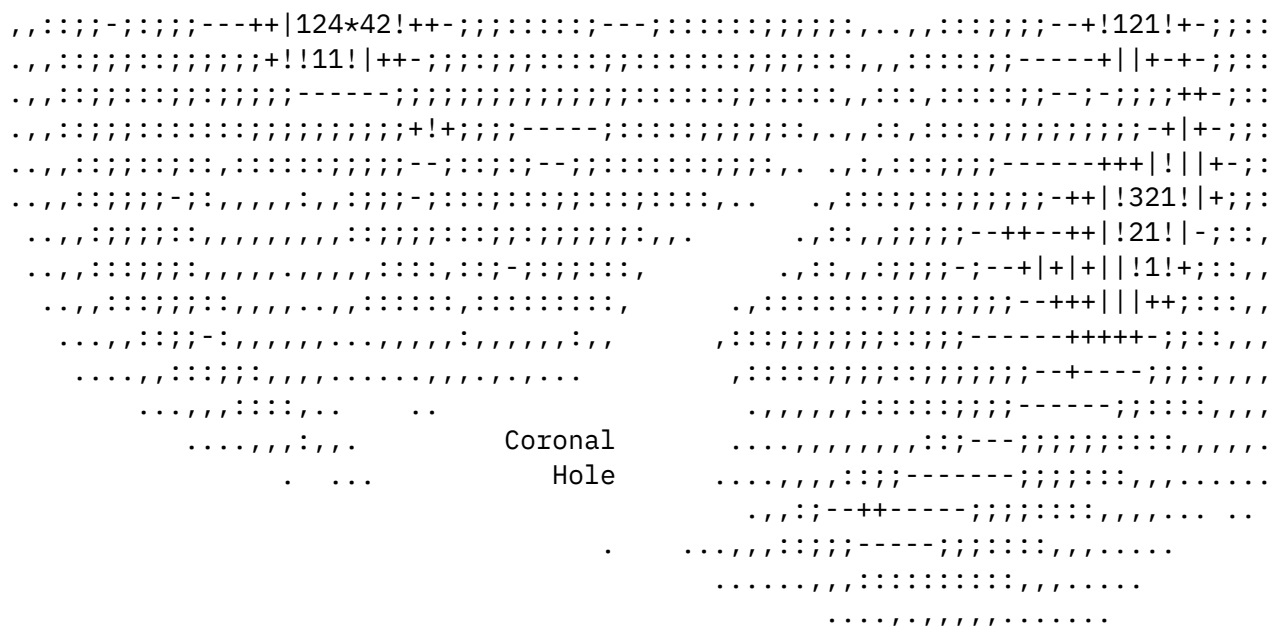
Acronyms used to identify sweeps and optical phenomena include:

| | |
|---|---|
| II | = Type II Sweep Frequency Event |
| III | = Type III Sweep |
| IV | = Type IV Sweep |
| V | = Type V Sweep |
| Continuum | = Continuum Radio Event |
| Loop | = Loop Prominence System, |
| Spray | = Limb Spray, |
| Surge | = Bright Limb Surge, |
| EPL | = Eruptive Prominence on the Limb. |

SPECIAL INSERT: CURRENT X-RAY EMISSIONS FROM THE JAPANESE YOHKOH SPACECRAFT
==========

16 November 1993, 03:00 UTC






South

KEY: East and west limbs are to the left and right respectively. Emission
strength, from minimum to maximum are coded in the following way:

[space] . , : ; - + | ! 1 2 3 4 * # @

Units used are arbitrary, for illustrative purposes. Get "showasc.zip"
from "pub/solar/Software" at the anonymous FTP site: xi.uleth.ca
(IP # 142.66.3.29) to view these images on VGA screens.

** End of Daily Report **

---

Date: 20 Nov 93 04:17:23 GMT
From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!noc.near.net!
news.delphi.com!usenet@network.ucsd.edu
Subject: FM SUB CARRIER ADAPTORS
To: info-hams@ucsd.edu

B00000000000000

---

Date: 20 Nov 93 06:46:42 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!moe.ksu.ksu.edu!crcnis1.unl.edu!
unlinfo.unl.edu!mcduffie@network.ucsd.edu

Subject: Gary?s comment
To: info-hams@ucsd.edu

pmarsh@metro.mccneb.EDU writes:

~~~~
>I'll have to agree with Gary, whichever he is.  But note that
>Gary speaks of the LICENSE situation, NOT the amateur people
>situation.

Congrats, Paul! Someone who can read was what written, not what they
would like to think was written!

~~~

 >One of the big complaints about our education process today is
 >that we spend too much time teaching "look-up-able" facts, and
 >too little time teaching "how to find what you need".  At this

Amen!

 >level, though, perhaps there should be classes in how to USE
 >amateur radio.  Now, THAT would be a good class.  How about it,
 >local clubs?  Do these exist?  No license-like test needed, but a
 >snazzy wall-hanging would be a lovely second thing to hang in the
 >new shack.

 >Paul Marsh   N0ZAU   Omaha

What an excellent idea, Paul. Let's take it further. Pass the test,
but don't allow actual on-the-air operation until such a certification
was earned (yeah, I hear the moaning already!). The "how-to" could
even be earned before testing - wouldn't matter. It might even spark
some of the old fuddy-duddy clubs into doing something new. Most clubs
in lesser populated areas are nothing but a signup sheet and trying to
figure out how to keep the local repeater power bill paid.

Thanks for the words, Paul. Even if you don't go along with the above
paragraph. Hi. Ever get out this way? Call me on 2m.

73, Gary

------------------------------

Date: 20 Nov 93 03:34:55 GMT
From: ogicse!uwm.edu!spool.mu.edu!agate!apple.com!apple.com!not-for-
mail@network.ucsd.edu

Subject: License Datapoints
To: info-hams@ucsd.edu

babiyd@mala.bc.ca (DALE BABIY) writes:

>For you Canadians out there... I got my Station today, 15th of Nov, applied
>on the 20th of Oct.


That's October *1993* ?!  It takes almost that long to get mail through
the U.S. postal system.

Can we hope that the VEC and the FCC become as efficient post-NAFTA?

:-) :-)   (Smiley, smiley, folks, see?)

73,

Kok Chen, AA6TY    kchen@apple.com
Apple Computer, Inc.

---

Date: Fri, 19 Nov 1993 23:14:58 GMT
From: concert!news-feed-1.peachnet.edu!darwin.sura.net!gatekeeper.es.dupont.com!
esds01.es.dupont.com!COLLINST%esvx19.es.dupont.com@decwrl.dec.com
Subject: Phillips-Adams Code [long]
To: info-hams@ucsd.edu

In article <CGr84u.79A@odin.corp.sgi.com>, adams@chuck.dallas.sgi.com (Chuck
Adams) writes:
>WOW.  What a tough crowd.  You want the long form, you got it.
>Again, list from Phillips Code + Adams Mods to bring it somewhat
>up to date.  Not every abbreviation you know or will ever use is
>here and there are some here you will never hear or use in your lifetime,
>but that is life.  :-)
>--
>SIG
>------cut here----------
>Chuck Adams, K5FO - CP60
>adams@sgi.com
>QRP ARCI Awards Chairman

Thanks Chuck, I printed it out, laminated it and its next to my
xcvr.........

8^}

73, Tom WI3P  collinst@esvax.dnet.dupont.com  or collinst@world.std.com

"Shutup and sit down you moron!"...Ben Stern

*** MY EMPLOYER DOESN'T SPEAK FOR ME NOR I FOR THEM  ****

------------------------------

Date: Wed, 17 Nov 1993 16:49:36 GMT
From: microsoft!wingnut!laurahal@uunet.uu.net
Subject: What do I do now/
To: info-hams@ucsd.edu

In article <2c46b1$hl4@crcnis1.unl.edu> mcduffie@unlinfo.unl.edu (Gary McDuffie Sr) writes:
>drenze@icaen.uiowa.edu (Douglas J Renze) writes:
>
> (newbie question deleted)

>Now, if that doesn't say something about the current licensing
>situation, nothing will.

Gary, that's not fair. I know how to peak grids and dip plates because I use an old radio that requires such adjustments. If all you had ever been exposed to was modern stuff with broadband circuits, you wouldn't know what knobs with labels like "Plate" and "Load" did.

Besides, Doug is new. Rather than criticizing the licensing process, perhaps you might suggest how he can tune up his new radio.

73,
laura VE7LDH

------------------------------

Date: Wed, 17 Nov 1993 09:53:52 -0700
From: ftpbox!mothost!schbbs!NewsWatcher!user@uunet.uu.net
To: info-hams@ucsd.edu

References <rcrw90-121193085420@node_13059.aieg.mot.com>, <RFM.93Nov15163846@urth.eng.sun.com>, <drew.82.0@trl.oz.au>thost
Subject : Re: How did spark transmitters work (was Re: CW)

In article <drew.82.0@trl.oz.au>, drew@trl.oz.au (Drew Diamond) wrote:

> Another refinement was to fit, into the
> spark-gap, a motor-driven rotating toothed wheel, which modulated the

> broad-band noise and introduced a more "musical" note, thus allowing skilled
> operators some means of discriminating between the many signals on the air.

I saw one demonstrated many years ago - fascinating but what a racket!

> If you have access to early issues of QST (say pre 1930), you will find
> many descriptions of amateur spark stations- fascinating reading.

I agree the idea of actually communicating this way is fascinating.  Even
more so when you compare it to our modern radios.

--
Mike Waters  rcrw90@email.mot.com  AA4MW@KC7Y.PHX.AZ.US.NA

BOBS BEST BENT WIRE SK

---

Date: 20 Nov 93 11:44:31 GMT
From: yeshua.marcam.com!wrdis02.robins.af.mil!lakeith@uunet.uu.net
To: info-hams@ucsd.edu

References <2cbf01$nvt@kelly.teleport.com>, <2cg4sn$3gf@jericho.mc.com>,
<18NOV199313462274@nssdca.gsfc.nasa.gov>ke
Subject : Re: License Datapoints

ERICH FRANZ STOCKER (stocker@nssdca.gsfc.nasa.gov) wrote:

.....Stuff deleted..........

: Its a shame really. We need the league to be stronger now than ever. Of course,
: I am not advocating that that means no criticism.  We owe the league
: CONSTRUCTIVE criticism and suggestions.  Those who feel that they have a
: better way should take a greater part in the league not eschew it.  Mindless
: rebellion is not required for a successful democracy.  Total rejection
: based on the fact that the league does not agree with all of ones personal
: views, is also not very productive.  Invovlement is the key!

: IMHO
: Erich
: n3oxm

Well said!  The ARRL has served us well and continues to do so!  Even
Wayne Green recommends that all hams be league members.  As with most
things in life, what we get from the ARRL is directly related to how
much we give..

In fact, I find that most league bashers are not members and have

never been members..  I have found that questions addressed to the Headquarters staff are usually answered quickly and courteously.  Some elected officials are less responsive than I would like.  But, I can't help fix it by standing on the outside and yelling at them.

Emotion aside, If you investigate the situation, I think you will find more reasons to be a member than not.  And, if you are a member, your opinions will certainly count more than those who stand on the outside and yell.

I'm not an organizer and I am not an activist.  I'm just an average ham who gets his money's worth from League membership.

73,

Larry, KQ4BY

---

Date: 20 Nov 93 15:35:40 GMT
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu
To: info-hams@ucsd.edu

References <1993Nov18.034401.1913@mulvey.com>, <1993Nov18.143557.3937@ke4zv.atl.ga.us>, <1993Nov19.001658.26868@unet.net.com>
Reply-To : gary@ke4zv.UUCP (Gary Coffman)
Subject : Re: Miss Manners in the Novice Sub-bands?

In article <1993Nov19.001658.26868@unet.net.com> larson@loren.net.com (Alan Larson) writes:
>In article <1993Nov18.143557.3937@ke4zv.atl.ga.us> gary@ke4zv.atl.ga.us (Gary Coffman) writes:
>
>>Sure, absolutely, that's what I said. Read it again. If *neither*
>>party were Novice/Tech+ then I think it's rude for them to occupy
>>the tiny band segment allocated to N/T when they have plenty of
>>alternative space available.
>
>  Last I checked, folks were objecting to CW in the phone segments
>as rude.  This means that the Novice/Tech+ segments are 1/3 of all
>the availiable space on 40 and 15 meters.  Granted, the 80 meter
>segment is a somewhat smaller percentage, but it seems you are
>trying to exile high speed CW to ever smaller parts of the band.

Well first of all you won't hear me objecting to A1 emissions in the voice parts of the HF bands. That's what notch filters are for, especially the new multi-notch DSP filters. I'm for anything that pushes the radio art, and band sharing between voice and Morse

is one such thing.

I'm, mildly, objecting to running race cars on the learner's track. The beginners aren't as skilled at separating signals and need a little more elbow room to conduct their activities. So I'm suggesting it would be good to voluntarily restrict our activities as experienced amateurs to making contacts with N/T stations in their band segments rather than using that spectrum for our general operations. It's not illegal, immoral, or fattening for Extras to chat with each other in the Novice bands, but it isn't very considerate of the beginners trying to also use their limited slice of spectrum.

N/T have none of 160 meters, 1/10th of 80 meters, 1/6th of 40 meters, none of 30 meters, none of 20 meters, none of 17 meters, 1/5th of 15 meters, none of 12 meters, and 2/17ths of 10 meters for A1 operation. A total of 400 kHz out of 3.6 Mhz available to Extra class CW operators at HF. Avoiding voice and image allocations too, most of which are on 10 meters, the Extra still has 1.5 MHz available for CW. For a mode that claims to be so spectrum conserving, when done by experts, that should be plenty.

> Remember, they may not really have other space availiable, given
>restrictions such as antenna bandwidths.

I'd laugh if this didn't make me want to cry. Somebody with a higher than N/T license should know how to deal with this. If hams can load bedsprings and work the world, it's been done, then this isn't a reasonable objection except in some rather exceptional circumstances, mainly at 160 meters where N/Ts can't go anyway.

> I suppose it is similarly rude for users of other digital modes,
>such as packet, to run them in the CW portions of the band, when
>they have other alternative space availiable?

Since the data modes are *restricted by regulation* to the data portions of the HF bands, erronously called the CW portions, while the CW operators are not, this is a red herring. There are "gentlemen's agreements" between the data users and the CW users that voluntarily restrict the data users to small segments of their legally available spectrum. Those agreements are in a bit of flux as data use increases, but it's the CW operators who have other HF spectrum legally available, not the data users.

Gary
--


Gary Coffman KE4ZV | Where my job's going, | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | I don't know. It might | uunet!rsiatl!ke4zv!gary
534 Shannon Way | wind up in Mexico. | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244 | -NAFTA Blues |

------------------------------

End of Info-Hams Digest V93 #1368
******************************
******************************